

Title (en)

Apparatus for treating a tumor by an electric field

Title (de)

Apparat zur tumorbehandlung mittels eines elektrischen feldes

Title (fr)

Dispositif permettant de traiter une tumeur par un champ électrique

Publication

EP 2281603 A3 20110622 (EN)

Application

EP 10012706 A 20031001

Priority

- US 26332902 A 20021002
- US 28531302 A 20021031
- US 31557602 A 20021210
- EP 03799042 A 20031001
- IB 0304321 W 20031001

Abstract (en)

[origin: WO2004030760A2] An apparatus is provided for selectively destroying dividing cells in living tissue formed of dividing cells and non-dividing cells. The dividing cells contain polarizable intracellular members and during late anaphase or telophase, the dividing cells are connected to one another by a cleavage furrow. The apparatus includes insulated electrodes to be coupled to a generator for subjecting the living tissue to electric field conditions sufficient to cause movement of the polarizable intracellular members toward the cleavage furrow in response to a non-homogeneous electric field being induced in the dividing cells. The movement of the polarizable intracellular members towards the cleavage furrow causes the breakdown thereof which adversely impacts the multiplication of the dividing cells. Preferably, an intervening member is disposed between each insulated electrode and the skin surface and each intervening member includes a conductive "floating" plate that protects against the effects on the patient from a breakdown in the insulation of the electrode.

IPC 8 full level

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CPC (source: EP US)

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A61B 2017/00084 (2013.01 - EP US)

Citation (search report)

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DOCDB simple family (publication)

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CA 2499845 A1 20040415; CA 2499845 C 20160524; CA 2930736 A1 20040415; CA 2930736 C 20210112; CA 3100056 A1 20040415;
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CN 200380100872 A 20031001; DK 03799042 T 20031001; DK 10012702 T 20031001; DK 10012706 T 20031001; DK 10012716 T 20031001;
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